



# **Natural Gas Technologies II Conference**

**> Kent Perry**

**February, 2004**

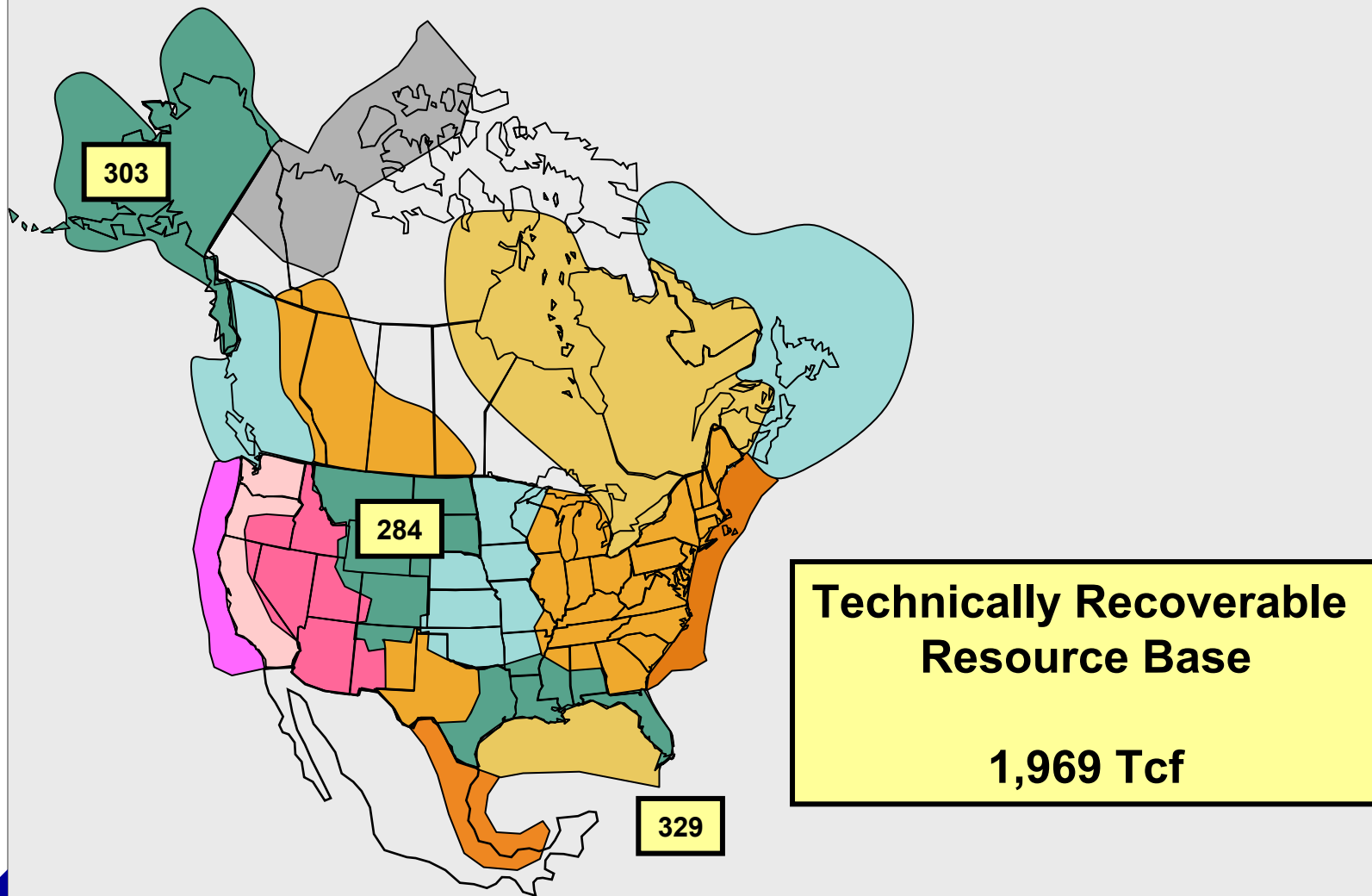
# Topics

- > **National Petroleum Council Natural Gas Study**
- > **Gas Supply Technology Needs**
- > **Unconventional Natural Gas**

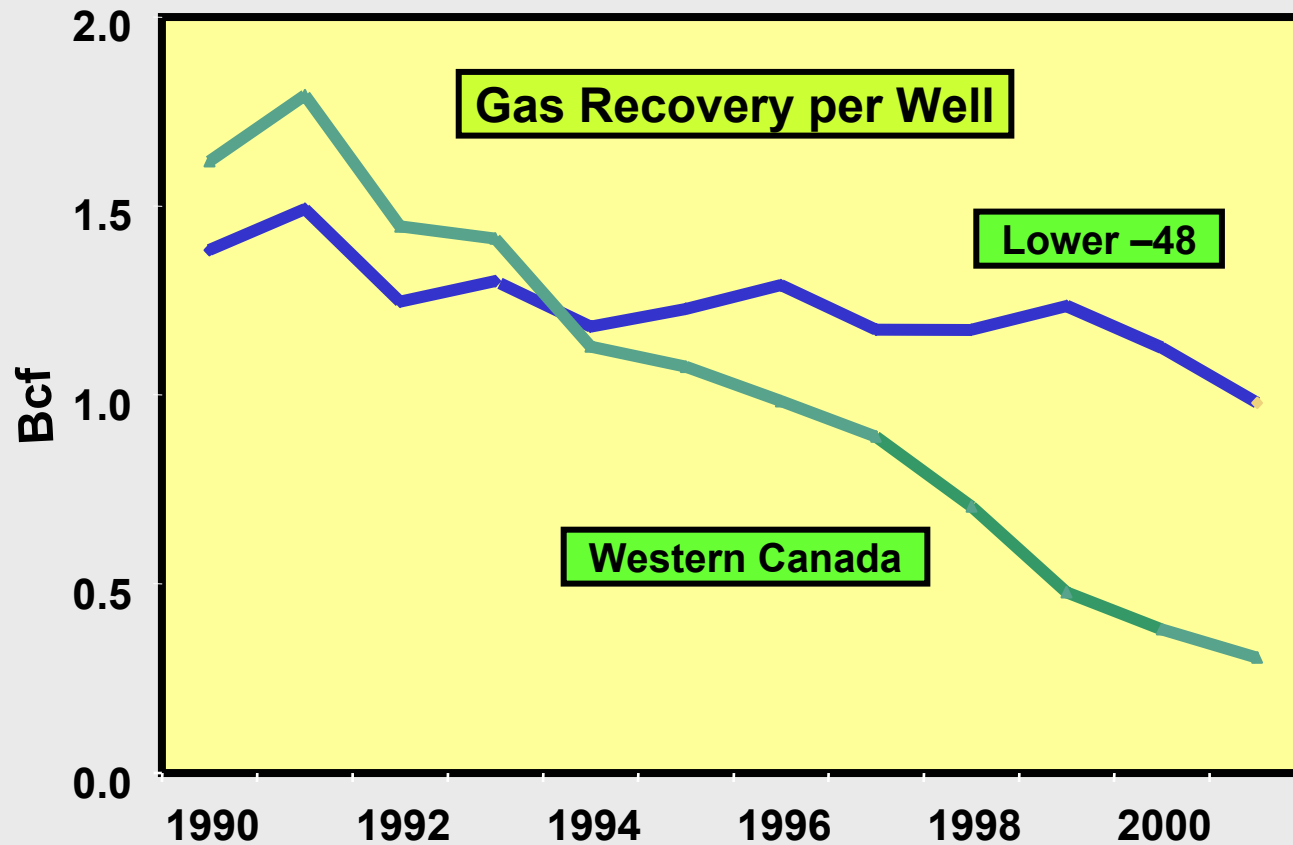
## ***NPC Gas Supply Finding:***

**Traditional North American producing areas will provide 75% of long-term U.S. gas needs, but will be unable to meet projected demand.**

# North American Resource Base is Large and Diverse

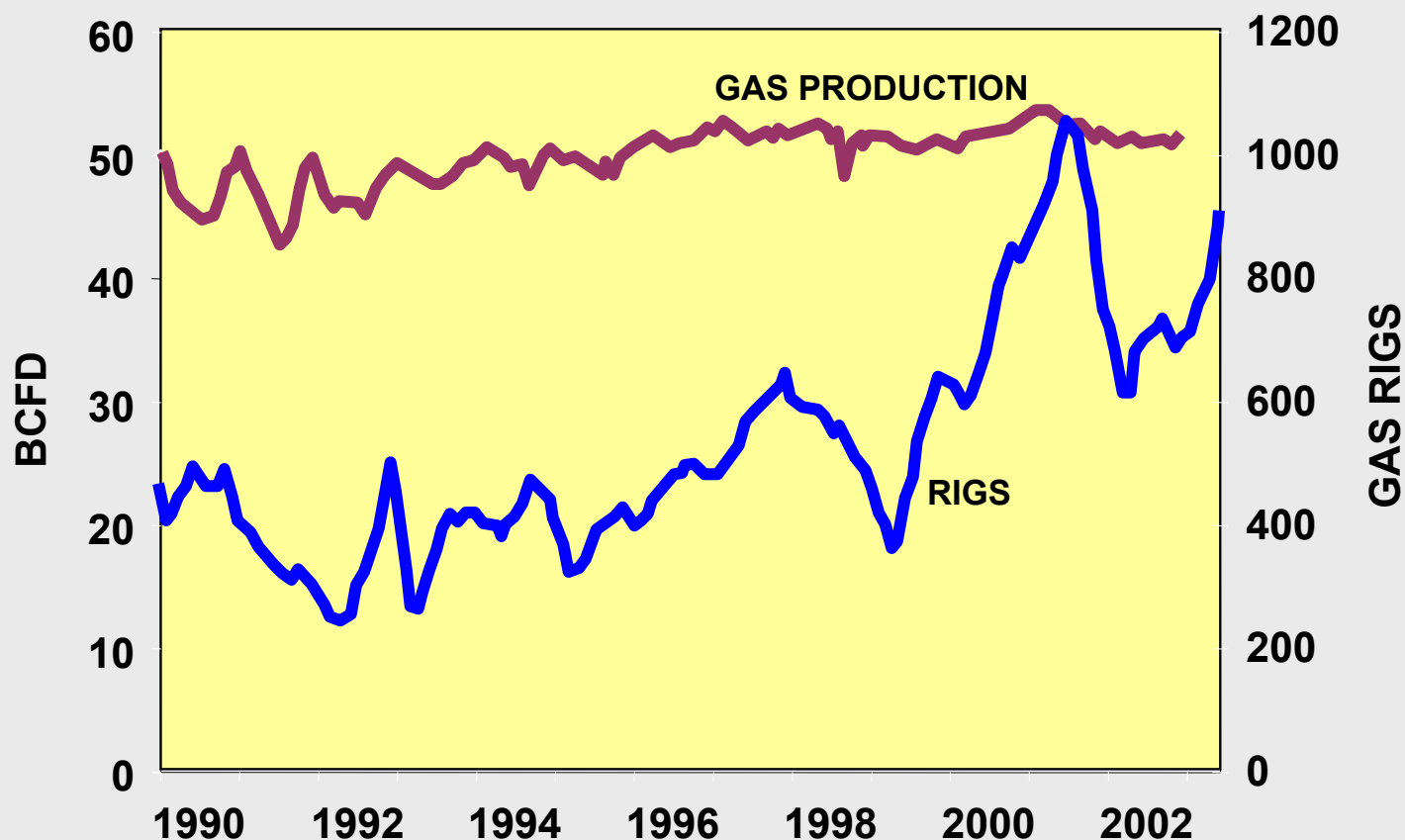


# Production History Confirms a Maturing Resource Base

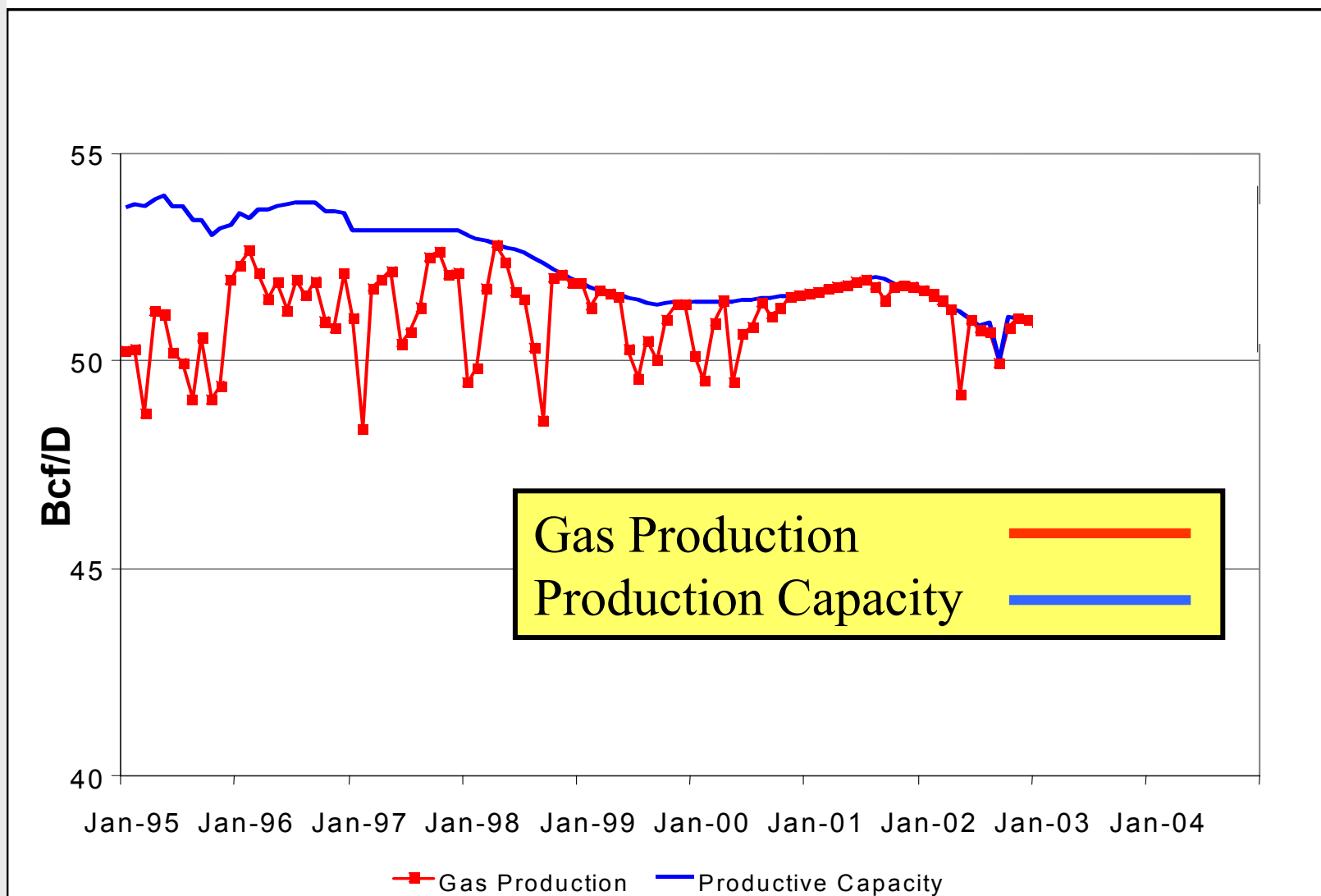


# Production Response from Increased Drilling Has Been Modest

Lower-48 Gas Production and Rig Count

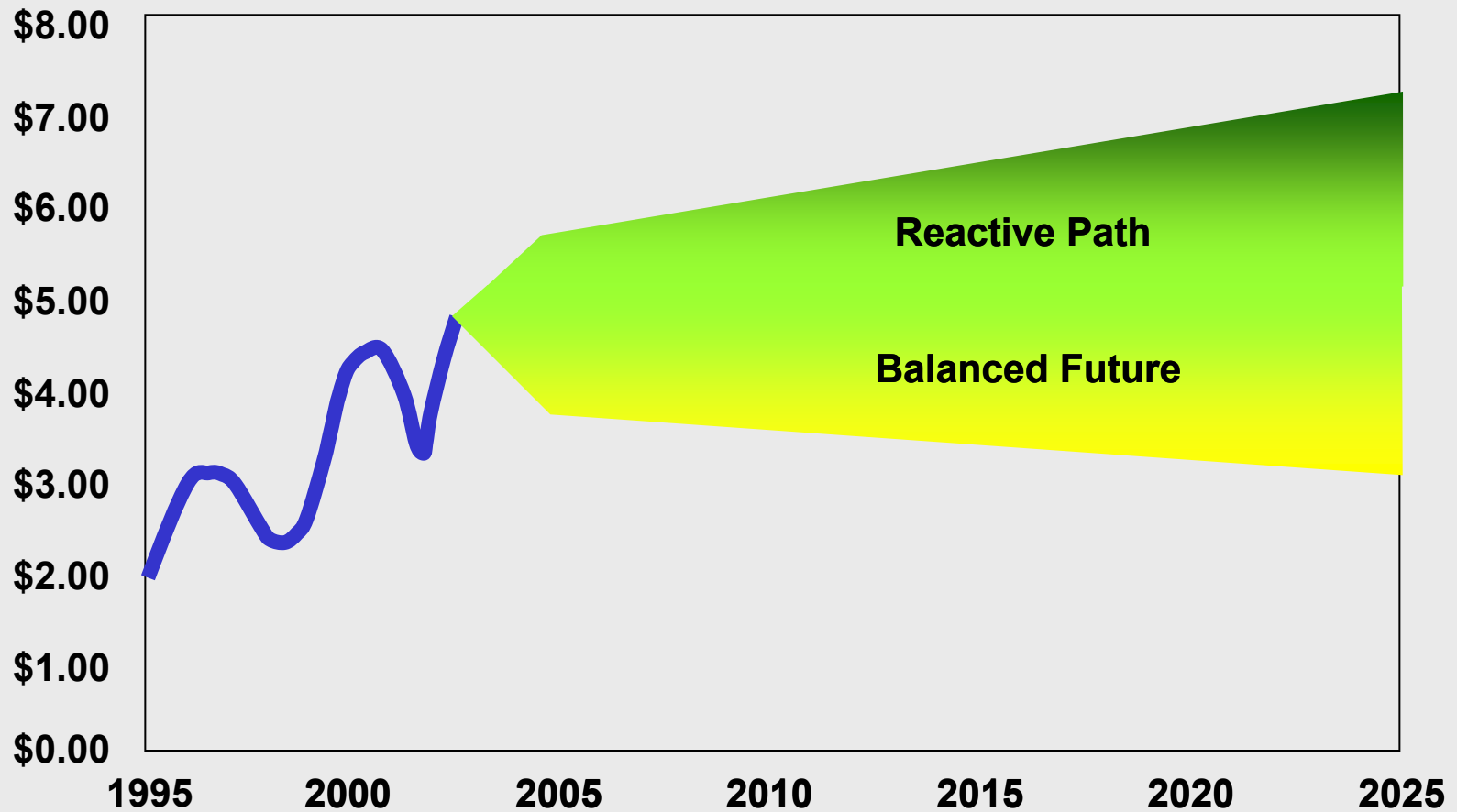


# Gas Production vs. Gas Production Capacity



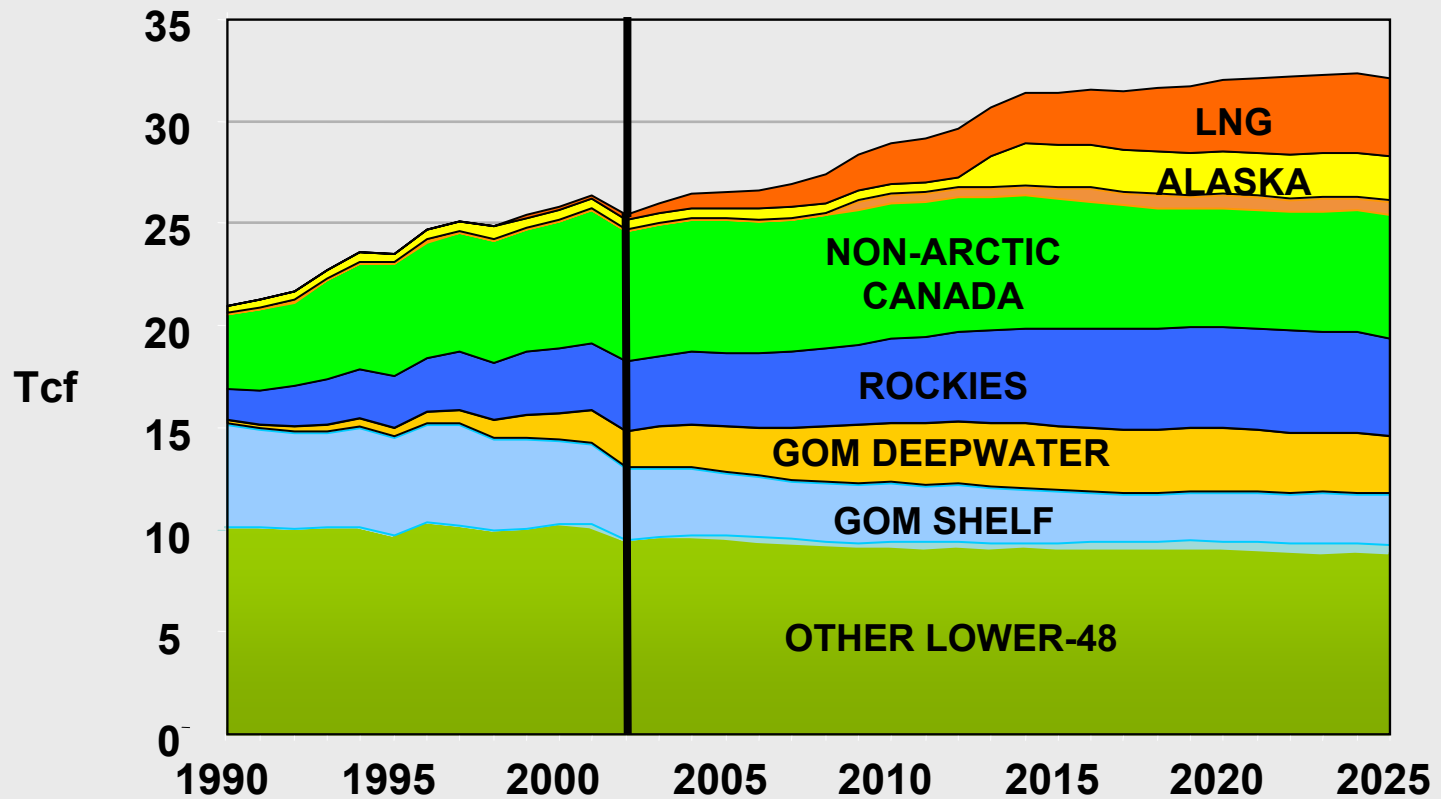
# Potential Price Range

Annual Average Henry Hub Prices, \$/MMBTU (\$2002)

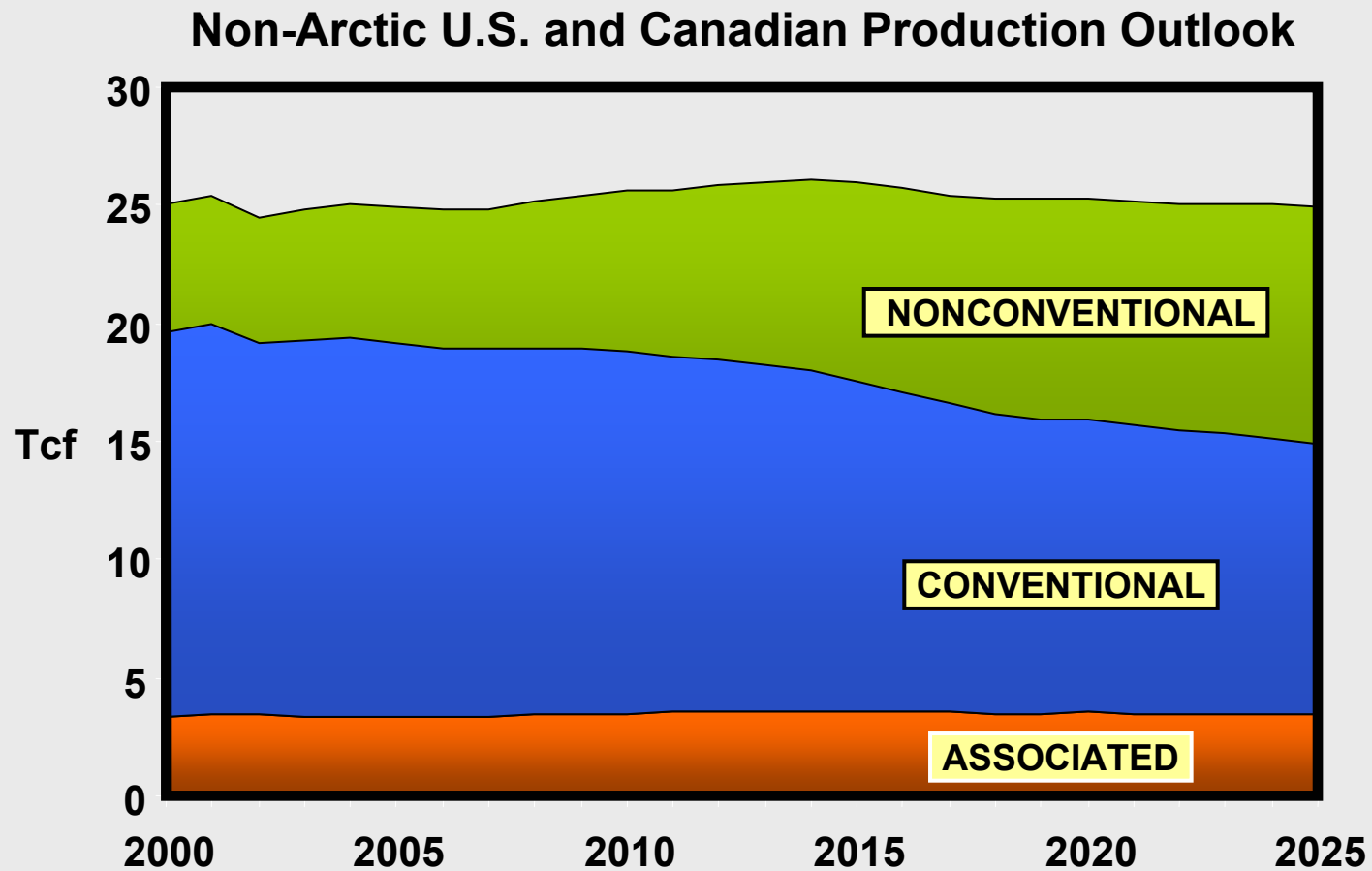




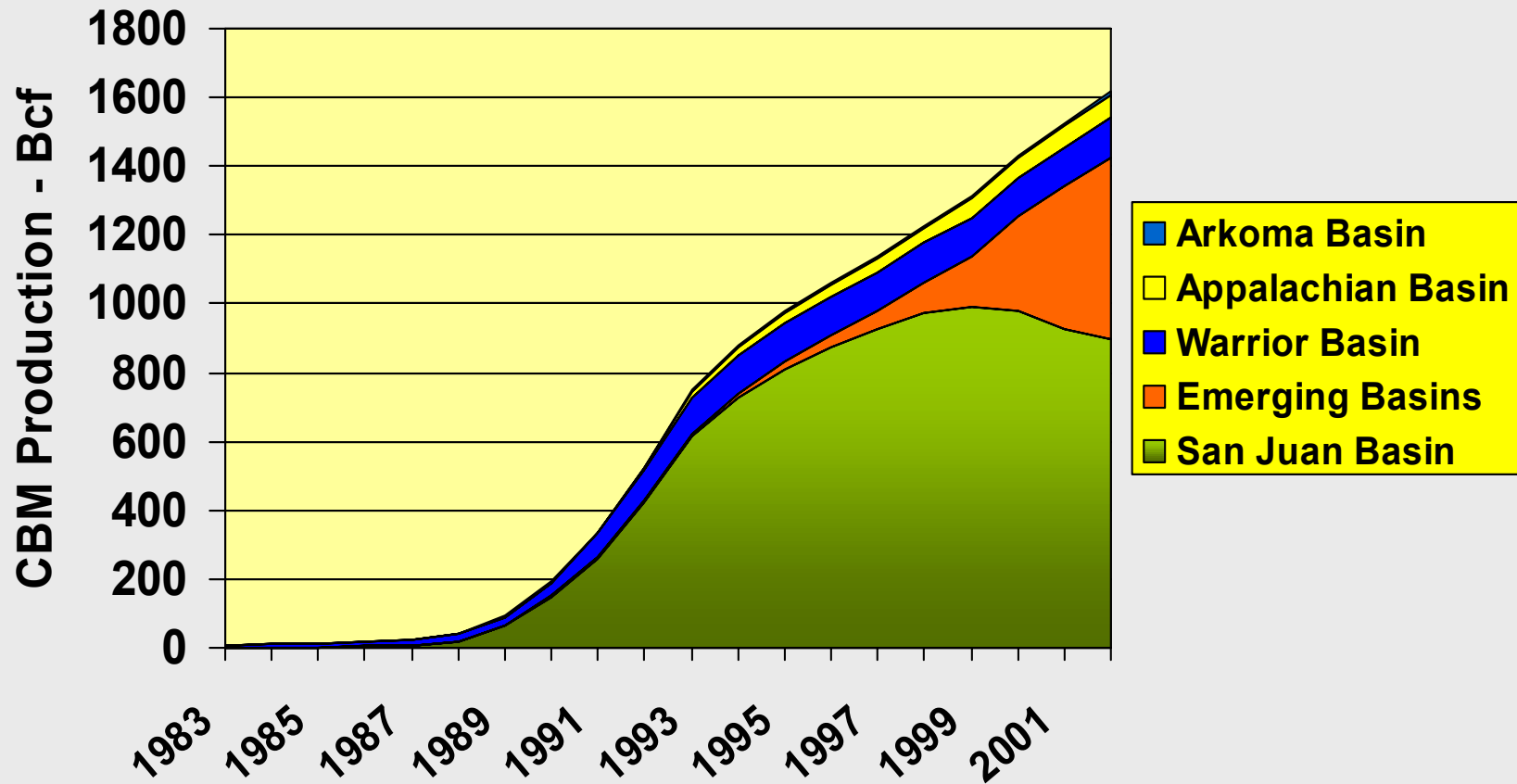
# Future Supplies Come from Traditional and New Sources



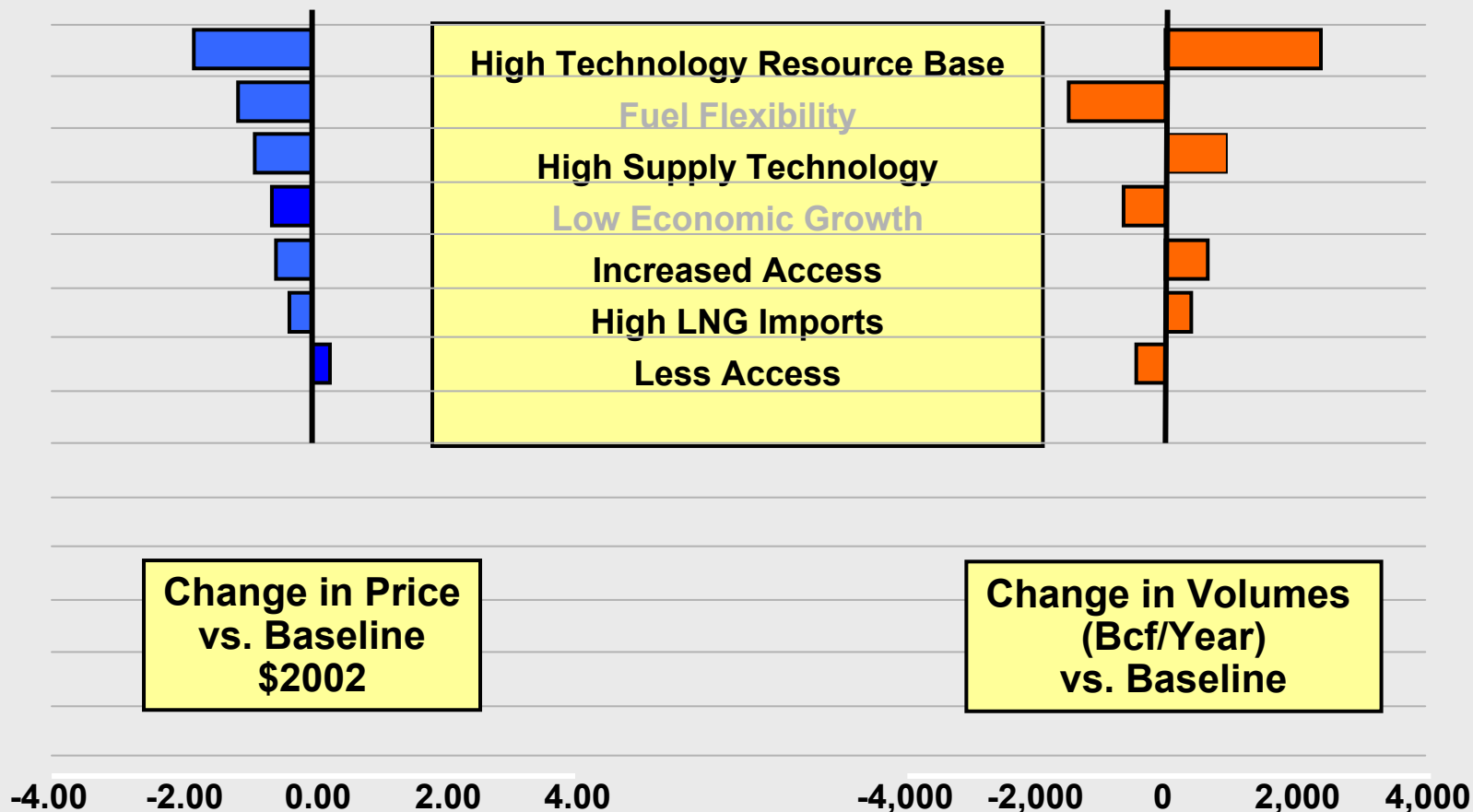
# Nonconventional Gas Growth



# Coalbed Methane Gas Production



# NPC Selected Sensitivity Analyses



Values shown are averages for the 2011 to 2025 period